

Systematic Literature Review (SLR) : Introduction

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PRESENTATION OUTLINE

BACKGROUND

DEFINITION

SYSTEMATIC REVIEW ABSTRACT

DEFINE YOUR TOPIC / AREA OF INTEREST

CHOOSE SUITABLE DATABASES

TYPES OF OPERATORS USED WITH QUERIES

HOW TO USE (WRITE QUERIES)



1- Typical Literature Review

Summarize a Topic that is broad in nature

- Does Not Define with Type of Studies will be included

2- Systematic Literature Review

- Summarizes Topic with Certain Criteria
- Define The type of Studies and their Acquiring strategies

3- Meta-Analysis Literature Review

- Takes Studies From Systematic Review
- Combine Similar Studies and pulls their results to get statistical significant results

How Are Reviews Related?



Definition

A Systematic Review Is An Overview Of Primary Studies Which Contains An Explicit Statement Of Objectives, Materials, And Methods And Has Been Conducted According To Explicit And Reproducible Methodology. A Systematic Review Is A Form Of Secondary Study, The Identified Individual Studies Contributing To A Systematic Review Called Primary Studies. It Is A Means Of Identifying, Evaluating And Interpreting All Available Research Relevant To A Particular Research Question, Or Topic Area, Or Phenomenon Of Interest .



Systematic Literature Review Or Systematic Review?

Type	SLR	LR
Scope	Narrow and specified	Broad
Search	Fully Comprehensive	not Fully Comprehensive
Study Selection	Has Clear criteria and justification for selection of studies	Often Lacks clear justification for adding or removing studies

Systematic Review Abstract

Objective:

ABSTRACT

The new and disruptive technology of smart home applications (hereafter referred to as apps) based on Internet of Things (IoT) is largely limited and scattered. To provide valuable insights into technological environments and support researchers, we must understand the available options and gaps in this line of research. Thus, in this study, a review is conducted to map the research landscape into a coherent taxonomy.

Methods:

We conduct a focused search for every article related to (1) smart homes, (2) apps, and (3) IoT in three major databases, namely, Web of Science, ScienceDirect, and IEEE Explore. These databases contain literature focusing on smart home apps using IoT.

Results:

The final dataset resulting from the classification scheme includes 229 articles divided into four classes. The first class comprises review and survey articles related to smart home IoT applications. The second class includes papers on IoT applications and their use in smart home technology. The third class contains proposals of frameworks to develop and operate applications. The final class includes studies with actual attempts to develop smart home IoT applications.

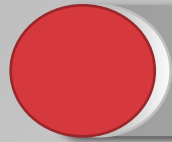
Discussion

We then identify the basic characteristics of this emerging field in the following aspects: motivation of using IoT in smart home applications, open challenges hindering utilization, and recommendations to improve the acceptance and use of smart home applications in literature.

Conclusions:

Define Your Topic / Area of Interest

- **One Topic** (One Faculty/Department) **Single Disciplinary**
- **Two Topics or More** (Same Faculty/ Same Department)
Cross disciplinary
- **Two Topics** (Different Faculties/Different Departments)
Multidisciplinary
- **Three Topics and More** (All From Different Faculties/
Different Departments) **Interdisciplinary**



Define Your Topic / Area of Interest

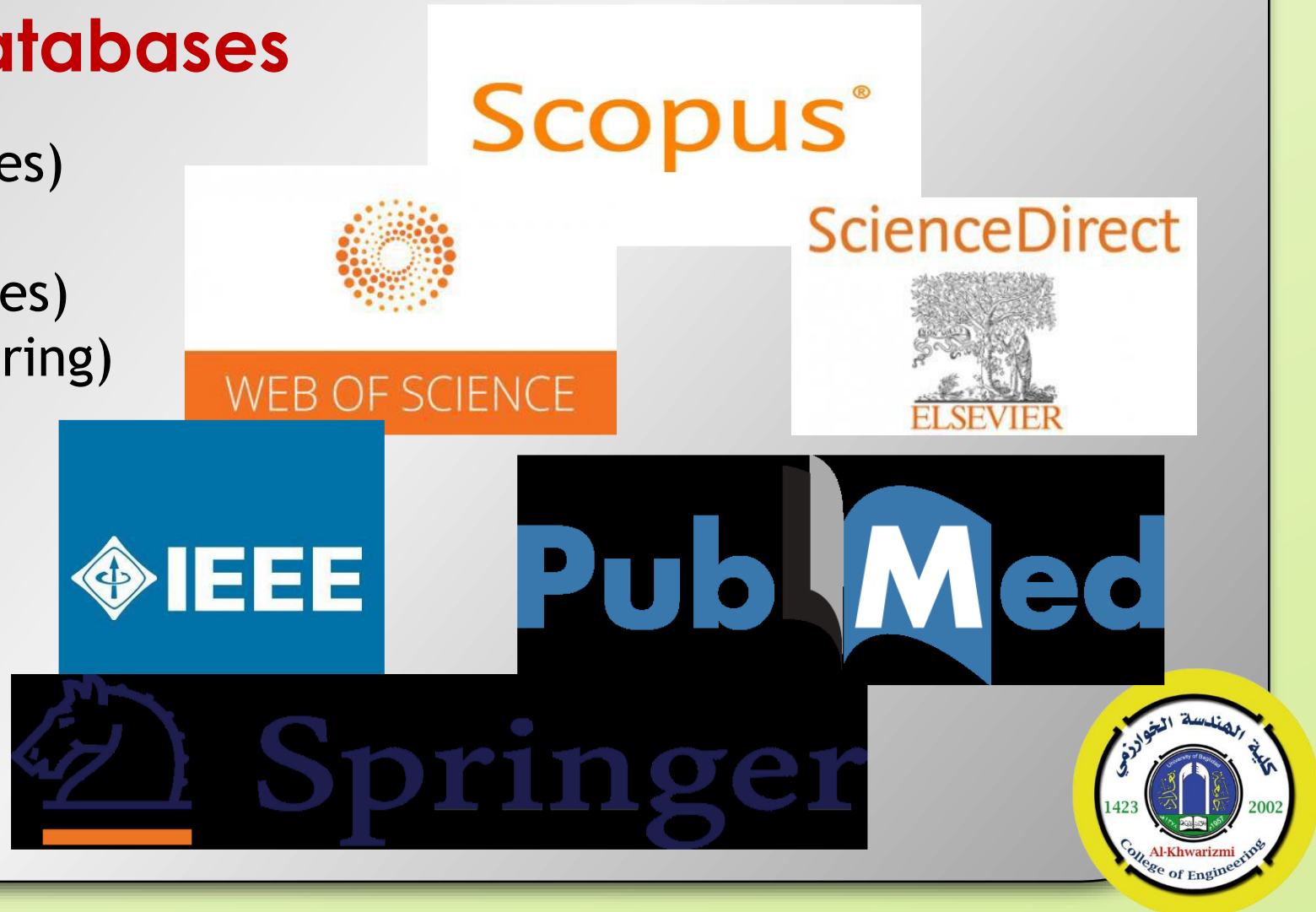
- (Computer Security) Interdisciplinary
- (Cancer) Interdisciplinary
- (Breast Cancer AND Diabetes) Cross disciplinary
- (Artificial Intelligence AND Network Security) Cross disciplinary
- (Artificial Intelligence AND Cancer) Multidisciplinary
- (Artificial Intelligence AND Stocks Exchange) Multidisciplinary
- (Computer Science AND Epidemics AND Economy) Interdisciplinary



Define Your Topic / Area of Interest

• Choose Suitable Databases

- Science Direct (All Disciplines)
- Scopus (All Disciplines)
- Web of Science (All Disciplines)
- IEEE (Technical and Engineering)
- Springer (All Disciplines)
- Medline (Medical)
- PubMed (Medical)
- ProQuest (All Disciplines)
- Ebsco (All Disciplines)
- NCBI (Medical)
- Emerald (Management)



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Types Of Operators Used with Queries

OR : Between close Meanings or goals within same discipline (GROUP)

AND : Between Different Groups (disciplines)

NOT : To Exclude from the Search

” : When the Keyword is comprised of two words

How To Use (Write Queries)

(Word1 OR Word2)

↓ ↓ ↓

One Space No Space

Initially, we defined the different keywords and their combination, creating the following search equation: (“**Youth**” OR “**Adolescents**” OR “**Students**”) AND (“**Cyber dating**” OR “**Digital Dating**” OR “**Partner Cyber**”) AND (“**Abuse**” OR “**Violence**” OR “**Aggression**”). This combination of

Searches were made using the following keywords or their combination in PubMed, accessed on 6 August 2018: (**'bipolar disorder'**:ab,ti OR '**manic-depressive disorder'**:ab,ti OR '**bipolar affective disorder'**:ab,ti OR '**hypomania or mania'**:ab,ti) AND '**quality of life'**:ab,ti AND '**euthymic'**:ab,ti [Title/Abstract].

Thank You

VERY MUCH FOR YOUR ATTENTION

Q&A